

**What is claimed is:**

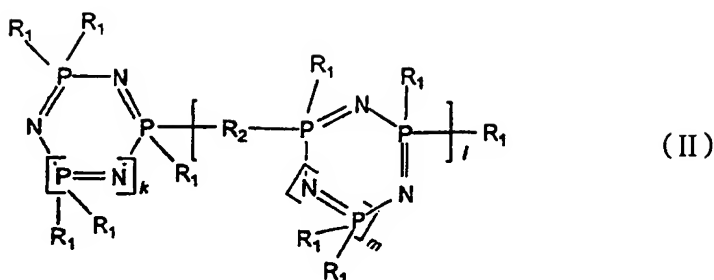
1. A flame retardant thermoplastic resin composition comprising:

5 (A) 45 to 95 parts by weight of a polycarbonate resin;

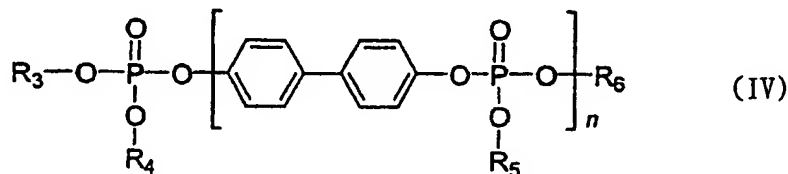
(B) 1 to 50 parts by weight of a rubber modified vinyl-grafted copolymer prepared by graft-polymerizing (b<sub>1</sub>) 5 to 95 % by weight of a monomer mixture consisting of 50 to 95 % by weight of at least one selected from the group consisting of styrene,  $\alpha$ -methylstyrene, halogen- or alkyl-substituted styrene, C<sub>1-8</sub> methacrylic  
10 acid alkyl ester, C<sub>1-8</sub> acrylic acid alkyl ester, or a mixture thereof and 5 to 50 % by weight of acrylonitrile, methacrylonitrile, C<sub>1-8</sub> methacrylic acid alkyl ester, C<sub>1-8</sub> acrylic acid alkyl ester, maleic acid anhydride, and C<sub>1-4</sub> alkyl- or phenyl N-substituted maleimide onto (b<sub>2</sub>) 5 to 95 % by weight of a rubber polymer selected from the group consisting of butadiene rubber, acryl rubber, ethylene-propylene  
15 rubber, styrene-butadiene rubber, acrylonitrile-butadiene rubber, isoprene rubber, copolymer of ethylene-propylene-diene (EPDM), polyorganosiloxane-polyalkyl (meta)acrylate rubber complex and a mixture thereof;

(C) 0 to 50 parts by weight of a vinyl copolymer prepared from (c<sub>1</sub>) 40 to 95 % by weight of at least one selected from the group consisting of styrene,  
20  $\alpha$ -methyl styrene, halogen or alkyl substituted styrene, C<sub>1-8</sub> methacrylic acid alkyl ester, and C<sub>1-8</sub> acrylic acid alkyl ester and (c<sub>2</sub>) 5 to 60 % by weight of at least one selected from the group consisting of acrylonitrile, methacrylonitrile, C<sub>1-8</sub> methacrylic acid alkyl ester, C<sub>1-8</sub> acrylic acid alkyl ester, maleic acid anhydride, and C<sub>1-4</sub> alkyl or phenyl N-substituted maleimide;

25 (D) 1 ~ 30 parts by weight of a mixture of organic phosphorous compounds consisting of (d<sub>1</sub>) 1 ~ 50 % by weight of a cyclic oligomeric phosphazene compound represented by the following Formula (II) and (d<sub>2</sub>) 99 ~ 50 % by weight of an oligomeric phosphoric acid ester compound represented by the following Formula (IV), per 100 parts by weight of the sum of (A), (B) and (C): and



wherein  $R_1$  is alkyl, aryl, alkyl substituted aryl, aralkyl, alkoxy, aryloxy, amino, or hydroxyl;  $k$  and  $m$  are an integer from 0 to 10;  $R_2$  is  $C_{6-30}$  dioxyaryl or alkyl substituted  $C_{6-30}$  dioxyaryl derivative; and  $l$  is a degree of polymerization and the average value of  $l$  is from 0.3 to 3. The alkoxy or the aryloxy can be substituted for alkyl, aryl, amino, or hydroxy group.

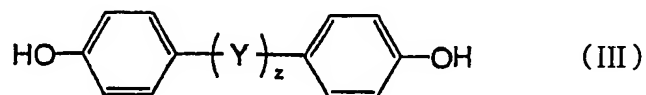


wherein  $R_3$ ,  $R_4$ ,  $R_5$  and  $R_6$  are independently a  $C_{6-20}$  aryl group or an alkyl-substituted  $C_{6-20}$  aryl group, respectively, and  $n$  is an integer representing the number of repeating units of 1 to 5 and the average value of  $n$  in the oligomeric phosphoric acid ester is 1 to 3.

(E) 0.05 to 5.0 parts by weight of a fluorinated polyolefin resin with average particle size of 0.05 to 1,000  $\mu m$  and density of 1.2 to 2.3  $g/cm^3$ , per 100 parts by weight of (A)+(B)+(C).

2. The flame retardant thermoplastic resin composition as defined in claim 1, wherein said cyclic oligomeric phosphazene compound has a linear structure or a structure with a branched chain at the main chain.

3. The flame retardant thermoplastic resin composition as defined in claim 1, wherein  $R_1$  is phenoxy and  $R_2$  is a derivative from catechol, resorcinol, hydroquinone, or the bisphenylenediol represented by the following Formula (III):



wherein Y is alkylene of  $C_{1-5}$ , alkylidene of  $C_{1-5}$ , cycloalkylidene of  $C_{5-6}$ , S or  $SO_2$ , and z is 0 or 1.

- 10 4. The flame retardant thermoplastic resin composition as defined in claim 1, wherein said  $R_3$ ,  $R_4$ ,  $R_5$  and  $R_6$  are a respectively phenyl, naphthyl, or substituted phenyl in which alkyl is methyl, ethyl, isopropyl, and t-butyl.